

ABSTRACT OF THE DISCLOSURE

An optical fiber chromatic dispersion distribution  
measuring apparatus for measuring the chromatic dispersion  
distribution of an optical fiber under test comprising two  
5 light sources 1, 2 at least one of which can change wavelength  
thereof, wherein light beams having different wavelengths from  
each other and emitted from the two light sources are inputted  
to the optical fiber under test 7 to measure a four-wave  
10 mixing light beam generated by interaction between the two  
light beams by optical time domain reflectometer (OTDR) 9;  
wherein an optical bandpass filter 8 having a fixed center  
wavelength is provided at a previous stage of the optical time  
domain reflectometer (OTDR); and wherein a coherence  
15 controller 10 for controlling coherence of at least one of the  
light beams outputted from the two light sources 1, 2.